

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An address resolution method for a communication system comprising a plurality of mobile packet terminals, a connection oriented network which accommodates the mobile packet terminals and supplies a connection oriented communication, a connectionless network having a switch node and an inter-working ~~function~~ device for mutually connecting the respective networks, comprising the steps of:

receiving data containing a Gratuitous-ARP packet which is of an address resolution protocol (ARP), from one of the mobile packet terminals ~~on~~ by way of the inter-working ~~function~~ device, in a case when the one mobile packet terminal is handed over to a handover destination on the connection oriented network;

transmitting the packet to the connectionless network ~~on~~ by way of the inter-working ~~function~~ device;

making the switch node receive the packet ~~on~~ by way of the inter-working ~~function~~ device;

renewing a physical address management table provided in the switch node on the basis of the content of the packet on the switch node; and

determining ~~the~~ another inter-working ~~function at a~~ device at the handover destination of the one mobile packet terminal on the switch node.

2. (Currently Amended) The address resolution method as claimed in claim 1,

wherein when the handover over the inter-working ~~function~~ device is detected, the one mobile packet terminal creates and transmits the IP address of its own mobile packet terminal to a transmission IP address portion of a non-group ARP and a target IP address portion, and creates and transmits to a

transmission physical address portion an ARP request message in which a mobile ID of its own mobile packet terminal is set.

3. (Currently Amended) The address resolution method as claimed in claim 1,

wherein when the handover over the inter-working ~~function~~ device is detected, the one mobile packet terminal creates and transmits the IP address of its own mobile packet terminal to a transmission IP address portion of a non-group ARP and a target IP address portion, and creates and transmits to a transmission physical address portion an ARP request message in which the telephone number of its own mobile packet terminal is set.

4. (Currently Amended) The address resolution method as claimed in claim 1,

wherein the inter-working ~~function~~ device uses Ethernet as the connectionless ~~type~~ network, and when receiving data containing the ARP request message from the one mobile packet terminal, the inter-working ~~function~~ device forms the data to an Ethernet frame as a physical layer of the connectionless network and transmits the Ethernet frame to the connectionless network.

5. (Currently Amended) The address resolution method as claimed in claim 1, wherein the inter-working ~~function~~ device uses as the connection oriented communication system an IS-95 system which is standardized in EIA (Electronic Industries Association)/TIA (Telecommunication Industry Association), ANSI (American National Standard Institute) and CDG (CDMA Development Group).

6. (Currently Amended) The address resolution method as claimed in claim 2,

wherein when the handover over the inter-working ~~function~~ device is detected, the one mobile packet terminal creates and transmits the IP address of its own mobile packet terminal to a transmission IP (Internet Protocol) address portion of a non-group ARP and a target IP address portion, and creates and transmits to a transmission physical address portion an ARP request message in which a telephone number of its own mobile packet terminal is set.

7. (Currently Amended) The address resolution method as claimed in claim 2,

wherein the inter-working ~~function~~ device uses Ethernet as the connectionless network, and when receiving data containing the ARP request message from the one mobile packet terminal, the inter-working ~~function~~ device forms the data to an Ethernet frame as a physical layer of the connectionless network and transmits the Ethernet frame to the connectionless network.

8. (Currently Amended) The address resolution method as claimed in claim 2,

wherein the inter-working ~~function~~ device uses as the connection oriented communication system an IS-95 system which is standardized in EIA (Electronic Industries Association)/TIA (Telecommunication Industry Association), ANSI (American National Standard Institute) and CDG (CDMA Development Group).

9. (Currently Amended) The address resolution method as claimed in claim 3,

wherein the inter-working ~~function~~ device uses as the connection oriented communication system an IS-95 system which is standardized in EIA (Electronic Industries Association)/TIA (Telecommunication Industry Association), ANSI (American National Standard Institute) and CDG (CDMA Development Group).

10. (Previously Presented) An address resolution communication system comprising a plurality of moving mobile packet terminals, a connection oriented network which accommodates the plural mobile packet terminals and supplies a connection oriented communication, a connectionless network having a switch node and an inter-working function for mutually connecting the respective networks to each other, the address resolution communication system comprising:

the inter-working function for receiving data containing a Gratuitous-ARP packet which is of an address resolution protocol (ARP) from one of the mobile packet terminals when the one mobile packet terminal is handed over, and transmitting the Gratuitous-ARP packet to the connectionless network to make the switch node receive the Gratuitous-ARP packet; and

the switch node for renewing a physical address table provided in the switch node on the basis of the content of the Gratuitous ARP packet to specify the interworking function at a handover destination of the mobile packet terminal.

11. (Previously Presented) The address resolution communication system as claimed in claim 10,

wherein when detecting the handover over the inter-working function, said one mobile packet terminal creates and transmits the IP address of its own mobile packet terminal to a transmission IP address portion and a target IP address portion, and creates and transmits to a transmission physical address portion an ARP request message in which the mobile ID of its own packet terminal is set.

12. (Previously Presented) The address resolution communication system as claimed in claim 10,

wherein when the handover over the inter-working function is detected, the one mobile packet terminal creates and transmits the IP address of its own mobile packet terminal to a transmission IP address portion of a non-group ARP

and a target IP address portion, and creates and transmits to a transmission physical address portion an ARP request message in which a mobile ID of its own mobile packet terminal is set.

13. (Previously Presented) The address resolution communication system as claimed in claim 10,

wherein when the handover over the inter-working function is detected, the one mobile packet terminal creates and transmits the IP address of its own mobile packet terminal to a transmission IP address portion of a non-group ARP and a target IP address portion, and creates and transmits to a transmission physical address portion an ARP request message in which a telephone number of its own mobile packet terminal is set.

14. (Currently Amended) The address resolution method as claimed in claim 10,

wherein the inter-working function uses Ethernet as the connectionless ~~type~~ network, and when receiving data containing the ARP request message from the one mobile packet terminal, the inter-working function forms the data to an Ethernet frame as a physical layer of the connectionless network and transmits the Ethernet frame to the connectionless network.

15. (Previously Presented) The address resolution communication system as claimed in claim 10,

wherein the inter-working function uses as the connection oriented communication system an IS-95 system which is standardized in EIA (Electronic Industries Association)/TIA (Telecommunication Industry Association), ANSI (American National Standard Institute) and CDG (CDMA Development Group).